CLAIMS

What is claimed is:

	1.	An electionic module for use in a wheless modeln system comprising.
2		a wireless modem having an enclosure;
3		a power inserter circuit contained within the modem enclosure;
4		a power source electrically connected to the modem and the power inserter circuit;
5	and	
6		an output connector connected to the modem and the power inserter circuit;
□ ₇		wherein the output connector connects to an external transverter and supplies
□7 □ ¥8 □ □ □ □ □ □ □ 2	electric	cal power and an electrical signal to the transverter.
	2.	The electronic module of Claim 1, wherein the power inserter circuit comprises:
₩ 1₩2		an inductor connected to the power source; and
□3 □3		a capacitor connected to the output of the modem, the inductor, and the transverter;
□3 □4 □5		wherein the capacitor blocks DC power from entering the output of the modem and
<u>5</u>	the ind	luctor blocks IF energy from entering the power source.
1	3.	The electronic module of Claim 1, wherein the power source is an AC-to-DC
2	conver	ter.
1	4.	The electronic module of Claim 3, wherein the AC-to-DC converter is contained

2 within the modem.

The electronic module of Claim 1, wherein the power source is a dual output voltage

2 power supply.

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- 1 6. The electronic module of Claim 1, further comprising:
- 2 a DC-to-DC converter contained within the modem enclosure and electrically
- 3 connected to the power source and the modem;

- 4 wherein the DC-to-DC converter outputs a constant voltage to the modem regardless
- 5 of a change in input voltage from the power source.
- 1 7. The electronic module of Claim 6, wherein the power source output voltage is set
- 2 according to a transverter input voltage requirement.
- 1 8. A wireless modem system comprising:
- 2 a wireless modem having an enclosure;
- a power inserter circuit contained within the modem enclosure;
- 4 a power source electrically connected to the modem and the power inserter circuit;
 - a DC-to-DC converter contained within the enclosure electrically connected to the power source and the modem;
 - an output connector connected to the modem and the power inserter circuit;
 - a transverter electrically connected to the output connector; and
 - an antenna connected to the transverter;
 - wherein the transverter receives DC power from the power inserter circuit along with an
 - electrical signal from the modem, and the power inserter circuit isolates the modem
- 12 components from the DC power sent to the transverter and isolates the power source from the
- 13 electrical signal sent to the transverter.

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- 1 9. The system of Claim 8, wherein the DC-to-DC converter outputs a constant voltage to
- 2 the modem regardless of a change in input voltage from the power source.
- 1 10. The system of Claim 9, wherein the power source output voltage is set according to a
- 2 transverter input voltage requirement.